

ABSTRACT OF THE DISCLOSURE

A Ta-Si-O ternary alloy thin film resistive element having a self-oxide film that is good in energy transfer efficiency to an ink and is good in erosion resistance is used as a heating element, and deterioration in service life of the Ta-Si-O ternary alloy thin film resistive element due to cavitation is prevented. A heater ejects an ink filled in the individual flow channel in the vicinity of the nozzle from the nozzle as an ink droplet through expansion of a bubble formed in the ink with heat energy from the Ta-Si-O ternary alloy thin film resistive element, and the bubble formed in the individual flow channel is connected to the atmospheric air through the nozzle.